PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file refe	FOR FURTHER A		ration of Transmittal of International y Examination Report (Form PCT/IPEA/416)
P31872-P0			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/JP 03/13797	28.10.2003	·	30.10.2002
	tion (IPC) or both national classification	and IPC	
G11B27/32			
Applicant			
MATSUSHITA ELECT	IIC INDUSTRIAL CO.,LTD. et al		
This international pro	eliminary examination report has be	en prepared by this	International Preliminary Examining
Authority and is tran	smitted to the applicant according to	Article 36.	
2. This REPORT consi	sts of a total of 5 sheets, including t	this cover sheet.	
☐ This report is a	Iso accompanied by ANNEXES, i.e	sheets of the descr	ription, claims and/or drawings which have
(see Rule 70.1	i and are the basis for this report an 6 and Section 607 of the Administra	dior sneets containing tive Instructions und	ng rectifications made before this Authority der the PCT).
·	sist of a total of 13 sheets.		
These affickes con-	ist of a total of 15 sheets.		
3. This report contains	indications relating to the following i	items:	
I ⊠ Basis of	the opinion		
II Priority	не оринон		
	blishment of opinion with regard to	novelty, inventive ste	ep and industrial applicability
<u> </u>	nity of invention	•	
	-	vith regard to novelty	y, inventive step or industrial applicability;
citations	and explanations supporting such s	tatement	•
<u> </u>	ocuments cited		
	lefects in the international applicatio		
VIII □ Certain o	bservations on the international app	olication	
Date of submission of the de	nand	Date of completion	of this report
24.05.2004 25.01.2005			
24.00.2004		25.01.2005	
Name and mailing address of the international Authorized Officer			na Pite-
preliminary examining authority:			Lordin N. E
D-80298 Muni	ch	Sucher, R	
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International application No.

PCT/JP 03/13797

I. I	Bas	is o	f t	he i	rei	oor	ŧ
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-3,	8-38	as originally filed
	4, 4	a, 5, 6, 6a, 7, 7a	received on 22.11.2004 with letter of 22.11.2004
	Clai	ms, Numbers	
	1-14	ŀ	received on 22.11.2004 with letter of 22.11.2004
	Dra	wings, Sheets	
	1/11	-11/11	as originally filed
2.	With lang	n regard to the langua Juage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ulable or furnished to this Authority in the following language: , which is:
		the language of a trai	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	national application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequen	tly to this Authority in written form.
		furnished subsequen	tly to this Authority in computer readable form.
		The statement that the in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.
		The statement that the listing has been furnish	ne information recorded in computer readable form is identical to the written sequence shed.
4.	The	amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5.	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

No:

Inventive step (IS)

Claims

1-14

Yes: Claims No: Claims

Industrial applicability (IA)

Yes: Claims

1-14

Claims No:

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY Inter EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 & JP 11 086512 A (NEC CORP), 30 March 1999;
 - D2: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 & JP 10 083658 A (SONY CORP), 31 March 1998.
- 2. Document D1 discloses (see the abstract and par. 0018-0023 in conjunction with fig. 3) a recording method for recording data into an information recording medium (rewriting type optical disk), wherein the number of rewrites into the same area is limited, comprising

performing a search for unallocated areas in an information recording area and retaining, in a memory, unallocated area identifying information for identifying at least one unallocated area found by the search (step S31, reading positional information and size information on a free space from non-record section information, see also fig. 2),

determining whether or not an unallocated area satisfying a record request is present among the at least one unallocated areas identified by the unallocated area identifying information (step S32, asking for the size of the data to be written, and step S33, judging whether writing to a non-record section is possible based on the free space), and

when an unallocated area satisfying a record request is present among the at least one unallocated areas identified by the unallocated area identifying information, allocating the unallocated area as an area for recording data and recording data into the allocated area (steps S35 and S36, recording of data to the non-record section and changing the corresponding non-record section information).

From this, the subject-matter of claim 1 differs by searching for a new user file recorded in at least one allocated area, generating a pointer indicating a position based on an end position of an area in which the new user file is recorded,

wherein the search for unallocated areas is performed from a position following the position indicated by the pointer in a fixed direction.

By starting the search for unallocated areas from an end position of an area in which a new user file is recorded, the time for searching unallocated areas can be reduced.

Document D2 discloses to write new file information in an empty sector of a file information recording area (70) successively and additively after old file information in order to decrease the number of rewrites into the same area of an optical disk. However, the search for an empty sector after old file information is always started from the beginning of the file information recording area (see par. 0043 and 0044 in conjunction with fig. 8, sector number i=0, track number j=0). Since the file information recording area (70) is small (2048 tracks of 64 sectors) compared to the user data area (80) which corresponds to the "information recording area" of claim 1, there is no motivation to use an additional pointer for starting the search as defined in the claim. Thus, even a combination of the teachings of documents D1 and D2 would not result in the subject-matter of claim 1 which therefore appears to involve an inventive step in the sense of Article 33(3) PCT.

The same statement also applies to claim 13 defining the corresponding recording apparatus.

3. Claims 2-12 and 14 are dependent on claims 1 and 13, respectively, and as such also meet the requirements of the PCT with respect to novelty and inventive step.